De	chelor of Science gree Code 259* Incentration Code	k	on-Teaching	2015-2016	•	Study for Geology Majors QUANTITATIVE GEOSCIENCE		
١.			RRICULUM			44		
	Chemistry 1101/1	1110 & 1102	2/1120 fulfill the Science Inquiry. MAT	1110 fulfills Quantitative Lite	eracy.			
П.	MAJOR REQUIR	REMENTS (not including 12 hours counted in Arec	ı I, above)		73-74		
	2.0 major GPA is re	equired for gr	aduation. Major GPA calculation will inclu of courses taken to fulfill major requireme	ude <u>all</u> courses taken in the maj	or department, p			
Α.	Geology (31 ser		-					
	Choose one 100	-		012/1404	(•)			
			oduction to Physical Geology	GLY 1104_		Water: Mountains to Sea		
			oduction to Historical Geology	GLY 1105_	(4)	Oceanography		
	GLY 1103	(4) Env	ironmental Change, Hazards, & Re	sources				
	GLY 2250	· ·	Evolution of the Earth (Pre: GLY 1102					
	GLY 2745 (4) Preparation of Geologic Reports [W GLY 3150 (3) Principles of Structural Geology and GLY 3220 (2) Finciples of Structural Geology and							
					2745)			
	GLY 3220		Fundamentals of Mineralogy (Pre:		22201			
	GLY 3715		Petrology and Petrography (Pre: CH		, 3220)			
	GLY 3800 GLY 4210		Sedimentology and Stratigraphy (Geology Seminar [CAP] (Pre: Senior					
	GLY 4835		Summer Field Geology or other a		CUV 2450 2745 2	2001		
				•	3LY 3150, 3715, 3	800)		
в.			concentration (15 semester hours	-				
			Geochemistry (Pre: GLY 2250; CHE 110		1110)			
			Introduction to Geophysics (Pre: 1)		1110)			
			Hydrogeology (Pre: $6 \text{ s.h. } GLY \ge 2000;$.		NV > 2000, In atom	a dia m		
	GLY 4705(3) Advanced Environmental & Engineering Geology (<i>Pre: 6 s.h. GLY \geq 2000; Jr. standing</i>) Plus choose 3 s.h. from the following courses :							
			Principles of Paleontology (Pre: GLY	(2250, 6 ch RIO or ANT > 2000 la	aval)			
			Geomorphology (Pre: 6 sh GLY)	2250, 0 311 BIO 01 ANT 2 2000 R	vel)			
			Geoarchaeology (Pre: 4 sh GLY)					
) Senior Research (Pre: Sr. standing; m	in GPA 3.25 in GLY)				
			Senior Honors Thesis (Pre: GLY 4501,		LY)			
c.	Mathematics/C	Chemistry/	Physics (33 hours)					
			arn the math minor. The extra MAT course					
	MAT 1110	· ·	Calculus with Analytic Geometry I					
	MAT 1120	· ·	Calculus with Analytic Geometry I					
		· ·	Calculus with Analytic Geometry I					
			Intro to Linear Algebra (Pre: MAT 11			Differential Equations (Pre: MAT 1120)		
		· ·	Introductory Chemistry I & Lab			Chem II & Lab (Pre: CHE 1101 & 1110		
			Analytical Physics I (Co: MAT 1110)	AND PHY 1151 _	(5) Analy	tical Physics II (Co: MAT 1120)		
D.			urs from the following:					
			Geospatial Data & Technology					
			Environmental Remote Sensing					
		· ·	Intro to GIS (Pre: GHY 2310, 2812)					
			Advanced GIS (Pre: GHY 3812)					
	=		Quant Data Analysis for Earth & E		10; PHY 1150)			
		· ·	Introduction to Statistics (Pre: MAT					
		· ·	Statistical Methods I (Pre: STT 2810/					
		· ·	Computer Science I (Pre: MAT 1020/					
	CS 1445	、 ,	Intro to Programming w/Interdisc S. (non-teaching) student must take ar					
	-		s. (non-teaching) student must take ar tical aspects in areas of geology. Stud					
	-		vo additional times prior to graduatior			e, and examination may retake		

III. MINOR (optional)

IV.	ELECTIVES (taken to total 122 hours for the degree)	.4- <u>5</u>
	2 semester hours of free electives must be outside the major discipline.	122